



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/053,781	01/20/2002	Sasisekharan Raguram	BAY-031	4254

7590

04/04/2006

Wilson & Ham
PMB: 348
2530 Berryessa Road
San Jose, CA 95132

EXAMINER

NAWAZ, ASAD M

ART UNIT	PAPER NUMBER
----------	--------------

2155

DATE MAILED: 04/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/053,781

Applicant(s)

RAGURAM ET AL.

Examiner

Asad M. Nawaz

Art Unit

2155

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 and 16-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 16-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to the RCE received 1/4/06. Claims 1 and 16 were amended. Claims 8-15 were canceled. Claims 20-27 have been newly added. Accordingly, claims 1-7 and 16-27 are pending.

Response to Arguments

2. Applicant's arguments with respect to claims 1-7 and 16-27 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-7 and 16-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ash et al (US Patent 6,778,535) hereinafter Ash further in view of Seddigh et al (US Patent 6,973,035) hereinafter Seddigh.

As to claim 1, Ash et al teaches a method comprising: routing a set-up message to a plurality of nodes in a transport network, wherein said set-up message reserves network resources for a plurality of traffic paths (a path is simply a subset of a larger reserved path, see Fig 3) through said transport network as said set-up message visits each of said plurality of nodes; (a check is made, in response to a determination of a path, whether each link in the path has available resources for the connection request, Abstract; col 2, lines 5-12; col 3, lines 3-45; col 5, lines 35-53)

and routing said set-up message to said plurality of nodes in said transport network, wherein said set-up message provisions network resources for said plurality of traffic paths through said transport network as said set-up message revisits each of said plurality of nodes. (The source node routes Setup messages to intermediate nodes and the resources are provisioned as the nodes are all revisited; Abstract; col 2, lines 5-12; col 3, lines 3-45; col 5, lines 35-53)

However, Ash does not explicitly indicate that the reserved network resources are provisioned only if all of the resources needed for the plurality of traffic paths have been successfully reserved.

Seddigh teaches the reserved network resources are provisioned only if all of the resources needed for the plurality of traffic paths have been successfully reserved (a handshake involving the Path message for reservations in one direction and the RESV message is transmitted on a per-hop basis back to the sender. If this is successful, the sender can provision the resources/services. Otherwise, the resources are not provisioned and usually signaled via a PATH_ERR message; col 3, line 62 to col 4, line 15)

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Seddigh into those of Ash to make the system efficient. By reserving the resources and provisioning them only once the entire set of paths is reserved would greatly reduce, if not eliminate, a termination of a session between a source and destination pair due to insufficient availability of resources.

As to claim 2, Ash et al teaches the method of claim 1 wherein at least one of said plurality of traffic paths is a working path and wherein at least one of said plurality of traffic paths is a protection path for said working path. (col 3, lines 3-46)

As to claim 3, Ash et al teaches the method of claim 1 wherein said set-up message revisits each of said plurality of nodes in the reverse order in which said set-up message visits each of said plurality of nodes. (Abstract; Fig 2, col 3, lines 15-33)

As to claim 4, Ash et al teaches the method of claim 1 wherein said transport network is a mesh network. (Fig 3, col 3, lines 33-46)

As to claim 5, Ash et al teaches the method of claim 1 wherein said transport network is a ring network. (Fig 2, col 3, lines 3-32)

As to claim 6, Ash et al teaches the method of claim 1 wherein at least one of said plurality of traffic paths is a multicast traffic path.(abstract; It is known that connection-oriented link layers, such as ATM, as taught by Ash et al, have built-in mechanisms for "point-to-multipoint" or "multipoint-to-multipoint" connections.)

As to claim 7, Ash teaches the method of claim 1, however, Ash does not explicitly indicate that some nodes are in a first network while others are in another.

Seddigh teaches that some nodes belong to a first network while others reside in another (Figs 1-3 and col 1, lines 40-50, multiple carriers and a framework comprising a plurality of domains each of which is a set of is a set of contiguous DS-compliant networks containing DS-compliant nodes.).

It would have been obvious to one of ordinary skill in the art at the time of the invention to traverse a path through a number of different types of networks, whether

Art Unit: 2155

they are a mesh network, ring network, use TCP/IP, etc. Numerous existing networking infrastructure enable one to employ nodes belonging to different transport networks without the need for additional work by the client.

Claims 16-27 contain similar limitations as the above-mentioned claims and are thus rejected under similar rationale.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Asad M. Nawaz whose telephone number is (571) 272-3988. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



AMN



PRIMARY EXAMINER